ABSTRACT OF THE DISCLOSURE

A transmitter is provided in each of tires to wirelessly transmit data representing the condition of the associated tire and data representing the direction of acceleration. A first reception antenna receives data from the transmitters provided in left and right front tires. A second reception antenna receives data from the transmitters provided in left and right rear tires. When receiving data from one of the transmitters, the receiver determines the position of the tire in which the transmitter that is the source of the data is provided based on the levels of received signals each sent from the first reception antenna and the second reception antenna.